

Desarrollo FrontEnd con JavaScript

s02 – Manejo de DOM y APIs del navegador

Manipulación de HTML utilizando DOM

Obtener elementos

- getElementById
- getElementsByClassName
- getElementsByTagName
- querySelector
- querySelectorAll

```
document.getElementById('container-1');  
document.getElementsByClassName('container');  
document.getElementsByTagName('h2');
```

```
document.querySelector('#container-1 h2');  
document.querySelectorAll('.container h2');
```

Recorrido de elementos

- parentNode
- children
- firstChild /
firstElementChild
- lastChild /
lastElementChild
- nextSibling /
nextElementSibling
- previousSibling /
previousElementSibling

```
document.getElementsByTagName('h2')[0].parentNode;  
document.body.children;  
  
document.body.firstChild;  
document.body.firstElementChild;  
  
document.body.lastChild;  
document.body.lastElementChild;  
  
var container_1 = document.getElementById('container-1');  
container_1.nextSibling;  
container_1.nextElementSibling;  
  
var container_2 = document.getElementById('container-2');  
container_2.previousSibling;  
container_2.previousElementSibling;
```


Manipulación de elementos

- createElement
- appendChild
- insertBefore
- removeChild

```
var container_3 = document.getElementById('container-3');

var container_2_5 = document.createElement('div');
container_2_5.id = 'container-2-5';

var container_2_5_h2 = document.createElement('h2');
container_2_5_h2.innerText = 'Subtítulo 2.5';

container_2_5.appendChild(container_2_5_h2);
document.body.insertBefore(container_2_5, container_3);

document.body.removeChild(container_3);
```

Atributos

- `getAttribute`
- `setAttribute`
- `hasAttribute`
- `removeAttribute`

```
var container_3 =  
document.getElementById('container-3');  
  
container_3.getAttribute('class');  
container_3.setAttribute('style',  
'background: #336699; color: #ffffff');  
container_3.hasAttribute('style');  
container_3.removeAttribute('style');  
container_3.hasAttribute('style');
```

Estilos

- getComputedStyle
- matchMedia
- matchesSelector

```
var container_3 =  
document.getElementById('container-3');  
window.getComputedStyle(container_3);  
window.matchMedia('screen');  
window.matchMedia('print');  
container_3.webkitMatchesSelector('.container');  
container_3.webkitMatchesSelector('#container-2');
```

Manejo de eventos

Manejo de eventos

- **addEventListener**
- removeEventListener
- dispatchEvent

```
var container_1 =  
document.getElementById('container-1');  
var container_1_h2 =  
container_1.firstElementChild;  
  
container_1.addEventListener('click',  
function(e) {  
    console.log('container_1:click');  
});  
  
container_1_h2.addEventListener('click',  
function(e) {  
    console.log('container_1_h2:click');  
});
```

Manejo de eventos

- addEventListener
- **removeEventListener**
- dispatchEvent

```
var container_1 =  
document.getElementById('container-1');  
var container_1_onclick = function(e) {  
    console.log('container_1:click');  
};
```

```
container_1.addEventListener('click',  
container_1_onclick);  
container_1.removeEventListener('click',  
container_1_onclick);
```

Manejo de eventos

- addEventListener
- removeEventListener
- **dispatchEvent**

```
var container_1 =  
document.getElementById('container-1');  
var container_1_onclick = function(e) {  
    console.log('container_1:click');  
};
```

```
container_1.addEventListener('click',  
container_1_onclick);
```

```
var click_event = new Event('click');
```

```
container_1.dispatchEvent(click_event);
```

APIs de HTML5

Geolocalización, LocalStorage, History API

Geolocation API

```
navigator.geolocation.getCurrentPosition(function(data)
{
    console.log(data.coords);
}, function(error) {
    console.log(error.message);
}, {
    timeout: 1000,
    maximumAge: 0
});
```

LocalStorage

- window.localStorage
- getItem
- setItem

```
var storage = window.localStorage;

storage.setItem('profesor_email',
'gustavo@xenda.pe');

storage.setItem('alumnos_registrados',
17);

storage.getItem('alumnos_registrados');
```

History API

- **pushState**
- **replaceState**
- onhashchange
- onpopstate

```
window.history.length;  
window.history.pushState({},  
  'Página 1', '/page/1');  
window.history.length;  
window.history.replaceState({},  
  'Página 1', '/page/1-a');  
window.history.length;
```

History API

- pushState
- replaceState
- onhashchange
- onpopstate

```
window.addEventListener('hashchange',  
function(e) {  
    console.log('window:onhashchange');  
});  
window.addEventListener('popstate',  
function(e) {  
    console.log('window:onpopstate');  
});
```